UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF OHIO EASTERN DIVISION

IMPULSE TECHNOLOGY LTD.,

Plaintiff,

v.

NINTENDO OF AMERICA INC.; ELECTRONIC ARTS, INC.; UBISOFT, INC.; THQ INC.; KONAMI DIGITAL ENTERTAINMENT, INC.; MAJESCO ENTERTAINMENT COMPANY; NAMCO BANDAI GAMES AMERICA INC.,

Defendants.

Civil Action No. 1:11-cv-02519-JG

HON. JUDGE GWIN

JOINT CLAIM CONSTRUCTION AND PRE-HEARING STATEMENT

Pursuant to the Court's Order dated March 23, 2012 (Dkt. No. 79) and L.P.R. 4.5, the Parties hereby respectfully submit the following Joint Claim Construction and Pre-hearing Statement.

I. THE PARTIES' AGREED UPON CONSTRUCTIONS

A. "sensor means for sensing a motion of a user"

Claim Term	Agree Upon Construction	
sensor means for sensing	Function: sensing a motion of a user	
a motion of a user		
	Structure: sensor 10	

B. "converter means for creating a signal indicative of said motion"

Claim Term	Agree Upon Construction	
converter means for	Function: creating a signal indicative of said motion of said user	
creating a signal		
indicative of said motion	Structure: a voltage-to-frequency converter or encoder (within item	
of said user	10 in Figure 2)	

C. "display means for displaying an indication of said level of physiological exertion of said user"

Claim Term	Agree Upon Construction	
display means for	Function: displaying an indication of said level of physiological	
displaying an indication	exertion of said user	
of said level of		
physiological exertion of	Structure: video display 20	
said user		

D. "means for affixing said sensor means to a limb of said user"

Claim Term	Agree Upon Construction	
means for affixing said	Function: affixing said sensor means to a limb of said user	
sensor means to a limb of		
said user	Structure: a strap	

E. "transmitter means for transmitting said signal"

Claim Term	Agree Upon Construction	
transmitter means for	Function: transmitting said signal	
transmitting said signal		
_	Structure: an infrared, acoustic, or radio transmitter	

F. "displaying an indication of said level of physiological exertion of said user"

Claim Term	Agree Upon Construction	
displaying an indication	The Parties agree that the Court does not need to construe this term	
of said level of	separately, but that should the Court apply Defendants' construction	
physiological exertion of	for the term "level of physiological exertion," the definition for	
said user	"displaying an indication of said level of physiological exertion of	
	said user" will be "displaying a numerical rate representing the rate	
	of energy expenditure or calories burned per unit time"	

G. "signal"

Claim Term	Agree Upon Construction	
signal	an electrical quantity, such as voltage, current, or frequency, that	
	conveys information	

II. PROPOSED CONSTRUCTIONS OF DISPUTED TERMS

A. "system for measuring physiological exertion"

Plaintiff's Construction	Defendants' Construction
No construction necessary	system that accurately quantifies physiological exertion
'637 patent, Abstract; col. 1, lines 7-35; col. 2, lines 23-58; col. 3, lines 3-61; col. 4, lines 9-15; col. 4, line 27 – col. 8, line 53; col. 10, lines 9-45; col. 11, lines 11-18; Figs. 1-4	'637 patent, col. 1, lines 7-8; col. 1, lines 11-14; col. 2, lines 3-6; col. 2, lines 42-44; col. 2, lines 44-46; col. 2, lines 51-54; col. 2, lines 60-61; col. 3, lines 10-12; col. 3, lines 31-34; col. 5, lines 26-27; col. 5, lines 30-35; col. 7, lines 8-9; col. 8, lines 20-21; col. 8, lines 36-39; col. 9, lines 60-63; col. 10, lines 9-12; col. 10, lines 18-20; col. 10, line 66 – col. 11, line 2.
June 28, 2012 Declaration of Edward L. Gussin ("Gussin Opening Decl."), ¶¶ 14-19, 28, 33-35, 38-43, 53-62 July 13, 2012 Rebuttal Declaration of Edward L. Gussin ("Gussin Rebuttal Decl."), ¶¶ 11-24 July 31, 2012 Deposition of Edward L. Gussin ("Gussin ("Gussin Depo."), 36:8-23; 38:25-45:10; 48:21-59:20; 60:10-87:3; 87:17-98:14; 99:3-131:6; 142:10-144:24 June 28, 2012 Declaration of Robert Howe (Howe Opening Decl."), ¶¶ 8-28 July 13, 2012 Rebuttal	Opinion testimony of Gordon G. Blackburn. Rebuttal Report of Gordon Blackburn re: Claim Construction of U.S. Patent No. 5,524,637
_	'637 patent, Abstract; col. 1, lines 7-35; col. 2, lines 23-58; col. 3, lines 3-61; col. 4, lines 9-15; col. 4, line 27 – col. 8, line 53; col. 10, lines 9-45; col. 11, lines 11-18; Figs. 1-4 June 28, 2012 Declaration of Edward L. Gussin ("Gussin Opening Decl."), ¶¶ 14-19, 28, 33-35, 38-43, 53-62 July 13, 2012 Rebuttal Declaration of Edward L. Gussin ("Gussin Rebuttal Decl."), ¶¶ 11-24 July 31, 2012 Deposition of Edward L. Gussin ("Gussin ("Gussin Depo."), 36:8-23; 38:25-45:10; 48:21-59:20; 60:10-87:3; 87:17-98:14; 99:3-131:6; 142:10-144:24 June 28, 2012 Declaration of Robert Howe (Howe Opening Decl."), ¶¶ 8-28

Claim Term	Plaintiff's Construction	Defendants' Construction
	3-11	
	August 6, 2012 Deposition of Robert Howe ("Howe Depo."), 35:17-55:8	
	July 13, 2012 Rebuttal Report of Gordon Blackburn ("Blackburn Rebuttal Report"), ¶¶ 1-5, 7-16, 19-104	
	August 1, 2012 Deposition of Gordon Blackburn ("Blackburn Depo."), 14:16- 17:16; 76:8-144:12	
	July 13, 2012 Rebuttal Report of Garry E. Kitchen ("Kitchen Rebuttal Report"), ¶¶ 2-9, 15-16, 18, 28-31, 34-38, 51-54, 64-66	
	August 3, 2012 Deposition of Garry E. Kitchen ("Kitchen Depo."), 34:7-37:12; 47:5-136:8	
	Webster's New World Dictionary Third College Edition, 1991, pages 476, 839, 1020	

B. "level of physiological exertion"

Claim Term	Plaintiff's Construction	Defendants' Construction
level of physiological exertion	No construction necessary	rate of energy expenditure or calories burned per unit time
Intrinsic Evidence	'637 patent, Abstract; col. 1, lines 19-35; col. 1, line 62 – col. 2, line 21; col. 2, lines 51-58; col. 3, line 3 – col. 7, line 15; col. 7, line 61 – col. 9, line 2; Figs. 1-4	'637 patent, col. 3, line 64 – col. 4, line 2; col. 4, lines 17-26; col. 4, lines 38-42; col. 6, lines 42-47; col. 7, line 61 – col. 8, line 1; col. 8, lines 27-30; col. 12, lines 32-45

(claims 18-20) '637 Prosecution History, Amendment A (received May 11, 1995) at 3. '637 patent Prosecution History, Office Action, dated February 7, 1995, including
cited patents, and corresponding response of Jon W. Erickson, dated May 8, 1995
Deposition testimony of Edward L. Gussin, July 31, 2012 (including 87:17-96:20, 107:13-108:21, 113:3-115:23). 31:6; -28 3-11 4 2-, 51-
3-

Claim Term	Plaintiff's Construction	Defendants' Construction
	Dictionary Third College	
	Edition, 1991, pages 476, 776,	
	1020	
	Webster's II New Riverside	
	University Dictionary, 1988,	
	page 887	

C. "pressure sensor"

Claim Term	Plaintiff's Construction	Defendants' Construction
pressure sensor	A device for measuring the amount of force applied to it	This term should be given its plain and ordinary meaning.
Intrinsic Evidence	'637 patent, Abstract; col. 1, lines 37-61; col. 2, lines 23- 36, 51-67; col. 7, lines 41-60; col. 8, line 4-9; col. 8, line 17 – col. 9, line 2; Fig. 3	'637 patent, col. 1, lines 45- 47; col. 1, lines 55-61; col. 2, lines 59-64; col. 8, lines 19-20
Extrinsic Evidence	Gussin Opening Decl., ¶¶ 14- 19, 28, 46-47, 49-52 Gussin Depo., 37:18-38:24; 133:21-138:11	Rebuttal Declaration of Robert D. Howe, Ph.D. re: Claim Construction of U.S. Patent No. 5,524,637
	Howe Opening Decl., ¶¶ 9, 13-14, 19	Deposition testimony of Edward L. Gussin, July 31, 2012 (including 37:19-38:24, 133:21-138:11)
	Howe Rebuttal Decl., ¶¶ 12-13	Declaration of Edward L. Gussin re: Claim Construction of U.S. Patent No. 5 524 637
	Howe Depo., 94:9-108:9 Blackburn Depo., 56:19-58:7	of U.S. Patent No. 5,524,637
	Kitchen Rebuttal Report, ¶ 34 Kitchen Depo., 31:2-10	

D. "receiver means for receiving said signal"

Claim Term	Plaintiff's Construction	Defendants' Construction
receiver means for receiving	Function: receiving said	Function: receiving said
said signal	signal	signal

Claim Term	Plaintiff's Construction	Defendants' Construction
	Structure: an infrared, acoustic or radio receiver (such as infrared light receiver depicted in item 14 of Figure 2)	Structure: an infrared receiver
Intrinsic Evidence	'637 patent, Abstract; col. 1, lines 42-47; col. 2, lines 23-36; col. 2, line 51 – col. 3, line 2; col. 7, line 18 – col. 9, line 2; col. 10, line 65 – col. 11, line 18; Figs. 1-4	'637 patent, Figure 2
Extrinsic Evidence	Gussin Opening Decl., ¶¶ 14-19, 28, 36-37, 46-47, 49-52 Gussin Depo., 36:8-23; 37:19-38:24; 41:24-45:10; 60:10-87:3; 109:13-113:2; 133:21-138:11 Howe Opening Report, ¶¶ 8-11, 13-14, 18-21, 27-28 Howe Rebuttal Report, ¶¶ 7-8, 10 Howe Depo., 41:8-42:7; 73:14-79:22; 94:9-108:9 Blackburn Rebuttal Report, ¶¶ 10, 23, 27, 44, 56, 68-70 Blackburn Depo., 135:16-138:17 Kitchen Rebuttal Report, ¶¶ 18, 21-22, 33-38, 46 Kitchen Depo., 34:7-37:12; 47:5-136:8 U.S. Patent Nos. 5,357,696;	None

Claim Term	Plaintiff's Construction	Defendants' Construction
	5,453,758; and 5,527,239	
	The Information Age Dictionary, 1992, pages 3, 141, 235-236, 239	
	McGraw-Hill Dictionary of Scientific and Technical Terms, 5 th Edition, 1994, pages 21, 1015, 1637, 1643, 1661	

E. "correlation means for correlating said signal indicative of said motion of said user with a level of physiological exertion of said user"

Claim Term	Plaintiff's Construction	Defendants' Construction
correlation means for	Function: correlating said	Function: correlating said
correlating said signal	signal indicative of said	signal indicative of said
indicative of said motion of	motion of said user with a	motion of said user with a
said user with a level of	level of physiological exertion	level of physiological exertion
physiological exertion of said	of said user	of said user
user		
	Structure: a computer	Structure: The specification
	implementing an algorithm	does not disclose sufficient
	comprising (1) using a signal	structure. This claim
	indicative of motion of the	limitation is thus indefinite.*
	user to determine a	
	performance level of the user	Corresponding structure must
	in a given activity; and (2)	include a special purpose
	calculating the exertion level	computer implementing an
	for an average person at the	algorithm sufficient to
	determined performance level	perform the claimed function.
	and the adjustments or	The description cited by
	corrections corresponding to	Impulse of the '637 patent is
	deviations from the average in	not an algorithm, at least in
	the most significant	that it does not provide for
	physiological parameters	determining "step height" and
	(such as weight, height, age,	"stepping rate." As such, the
	gender, and conditioning or	claim limitation is indefinite.
	training)	** T
		* Defendants Electronic Arts,
		Majesco, Ubisoft, Konami,
		and THQ contend that to the
		extent that the specification
		discloses any algorithmic

Claim Term	Plaintiff's Construction	Defendants' Construction
		structure for performing the function, the best candidate for algorithmic structure for performing the function is disclosed at 5:43-6:31. Defendant Nintendo does not believe that there is any algorithm disclosed in the '637 patent for "correlating said signal indicative of said motion of said user with a level of physiological exertion of said user," as required to provide corresponding structure, thus rendering the "means for correlating" indefinite.
Intrinsic Evidence	'637 patent, Abstract; col. 1, lines 19-61; col. 2, lines 12-67; col. 3, line 3 – col. 7, line 12; col. 7, lines 34-39; col. 7, line 59 – col. 8, line 53; col. 11, lines 11-18; Figs. 1-4 '637 patent file history, Non-Final Rejection, dated February 7, 1995 '637 patent file history, Applicant's Response to Non-Final Rejection, dated May 8, 1995	The specification does not disclose sufficient structure. This claim limitation is indefinite. Defendants intend to respond to Impulse's assertion that the '637 Patent discloses an algorithm for "correlating said signal indicative of said motion of said user with a level of physiological exertion of said user." Evidence supporting indefiniteness: '637 patent, Abstract; 1:2-3; 1:7-17; 1:11-14; 1:20-36; 2:3-2:12; 2:39-41; 2:51-53; 3:3-7:13; 7:44-46; 10:17-21; 10:27-42; 10:39-44; 11:21; claims 18, 19, and 20
Extrinsic Evidence	Gussin Opening Decl., ¶¶ 14- 19, 28, 33-62 Gussin Rebuttal Decl., ¶¶ 11- 24	Deposition testimony of Edward L. Gussin, July 31, 2012 (including 40:20-41:3, 43:18-44:8, 63:2-65:21, 67:14- 68:1, 68:10-70:19, 71:13-

Claim Term	Plaintiff's Construction	Defendants' Construction
		78:18, 80:8-85:7, 105:1-7;
	Gussin Depo., 36:8-23; 38:25-	106:4-108:21,109:7-111:7,
	45:10; 48:21-59:20; 60:10-	113:3-115:23)
	87:3; 87:17-98:14; 99:3-131:6;	
	142:10-144:24	Rebuttal Report of Gordon
		Blackburn re: Claim
	Howe Opening Decl., ¶¶ 8-28	Construction of U.S. Patent No. 5,524,637
	Howe Rebuttal Decl., ¶¶ 3-11	
		Rebuttal Expert Report of
	Howe Depo., 38:10-94:8	Garry E. Kitchen re: Claim
		Construction of U.S. Patent
	Blackburn Rebuttal Report, ¶¶ 1-5, 7-16, 19-104	No. 5,524,637
		Deposition testimony of
	Blackburn Depo., 14:16-	Robert D. Howe, August 6,
	17:16; 76:8-144:12	2012 (including 41:7-42:7,
		56:5-57:19, 58:4-20, 59:5-
	Kitchen Rebuttal Report, ¶¶ 2-	60:9, 61:5-63:3, 69:10-70:10,
	9, 15-16, 18-66	74:2-10, 74:18-75:9, 76:15-
	Witchen Den - 24-7 27-12.	79:11, 81:5-83:6, 84:4-85:22,
	Kitchen Depo., 34:7-37:12; 47:5-136:8	88:4-14)
		Declaration of Robert D.
		Howe, Ph.D. re: Claim
		Construction of U.S. Patent
		No. 5,524,637
		Rebuttal Declaration of Robert
		D. Howe, Ph.D. re: Claim
		Construction of U.S. Patent
		No. 5,524,637
		Ainsworth BE, et al., 2011
		Compendium of Physical
		Activities: A Second Update
		of Codes and MET Values,
		Medicine & Science in Sports
		& Exercise, pp. 1575-1581
		(NINTEN0009014-
		NINTEN0009020)
		Ainsworth BE, et al.,
		Compendium of Physical
		Activities: An Update of

Claim Term	Plaintiff's Construction	Defendants' Construction
		Activity Codes and MET
		Intensities, Medicine and
		Science in Sports and
		Exercise, pp. S498-S516
		(2000) (NINTEN0008925-
		NINTEN0008943)
		Ainsworth BE, et al.,
		Compendium of Physical
		Activities: Classification of
		Energy Costs of Human
		Physical Activities,
		Medicine and Science in
		Sports and Exercise, pp. 71-80
		(1993) (NINTEN0008915-
		NINTEN0008924)
		American College of Sports
		Medicine: Guidelines for
		Exercise Testing and
		Prescription, Lea & Febiger,
		Philadelphia, 3 rd Edition
		(1986) (NINTEN0009048-
		NINTEN0009065)
		American Callege of Sports
		American College of Sports
		Medicine: Guidelines for Graded Exercise Testing and
		Exercise Prescription, Lea &
		Febiger, Philadelphia (1975)
		(NINTEN0009042
		NINTEN0009047).
		THE COOP (7).
		American College of Sports
		Medicine: Guidelines for
		Graded Exercise Testing and
		Exercise Prescription, Lea &
		Febiger, Philadelphia, 2nd
		Edition (1980)
		(NINTEN0009065.01-
		NINTEN0009065.10).
		Bransford DR, Howley ET,
		Oxygen Cost of Running in
		Trained and Untrained Men

Claim Term	Plaintiff's Construction	Defendants' Construction
		and Women, Med. Sci. Sports, 9(1):41-44 (1977) (NINTEN0009002- NINTEN0009005)
		Chen KY et al., Efficiency of Walking and Stepping: Relationship to Body Fatness, Obesity Research, 12:982-989 (2004) (NINTEN0009006- NINTEN0009013)
		Graves JE et al., Physiological Responses to Walking with Hand Weights, Wrist Weights, and Ankle Weights. Med. Sci, Sports Exerc., 20:256-271 (1988) (NINTEN0009021- NINTEN0009027)
		Lind AR and McNicol GW, Cardiovascular Responses to Holding and Carrying Weights by Hand and by Shoulder Harness. J. Appl. Physiol., 25:261-267 (1968) (NINTEN0009028- NINTEN0009034)
		Martin PE, Rothstein DE and Larish DD, Effects of Age and Physical Activity Status on the Speed-Aerobic Demand Relationship of Walking, J. Appl. Physiol., 73:200-206 (1992) (NINTEN0009035- NINTEN0009041).
		Passmore R and Durnin J., Human Energy Expenditure, Physiol. Rev. 33:801 (1955) (NINTEN0008944- NINTEN0008983). Schepens B et al., Mechanical

Claim Term	Plaintiff's Construction	Defendants' Construction
		Work and Muscular
		Efficiency in Walking
		Children, J. Exp. Biol.,
		207:587-596 (2004)
		(NINTEN0008984-
		NINTEN0008993)
		·
		Weyand PG, et al., The Mass-
		Specific Energy Cost of
		Human Walking is Set by
		Stature, The Journal of
		Experimental Biology,
		213:3972-3979 (2010)
		(NINTEN0008994-
		NINTEN0009001)
		,

F. "means for measuring at least one physiological parameter of said user"

Claim Term	Plaintiff's Construction	Defendants' Construction
means for measuring at least	Function: measuring at	Function: measuring at least
one physiological parameter	least one physiological	one physiological parameter
of said user	parameter of said user	of said user
	Structure: a blood pressure sensor or pulse rate detector	Structure: an accelerometer, a pressure sensor, a blood pressure sensor, or a pulse rate detector
Intrinsic Evidence	'637 patent, Abstract; col. 2, lines 3-11; col. 2, lines 23-36; col. 7, lines 18-64; col. 8, lines 7-9, lines 13- 20, lines 30-31; col. 9, lines 3-11, lines 29-30; Figs. 1-4	'637 patent, col. 7, lines 41-47
Extrinsic Evidence	Gussin Opening Decl., ¶¶ 14- 19, 28, 46, 63-64	None
	Howe Opening Decl., ¶¶ 9, 13-14, 19 Howe Depo., 106:1-6	
	Kitchen Rebuttal Report, ¶ 34	

G. "memory means for recording said level of physiological exertion of said user"

Claim Term	Plaintiff's Construction	Defendants' Construction
memory means for recording said level of physiological exertion of said user	Function: recording said level of physiological exertion of said user	Function: recording said level of physiological exertion of said user
	Structure: software record	Structure: memory internal to monitor 14
Intrinsic Evidence	'637 patent, Abstract; col. 2, lines 6-11, lines 23-36; col. 7, lines 21-30; col. 8, lines 4-15, lines 30-34; col. 9, lines 3-6, lines 29-33; Figs. 2, 4	'637 patent, col. 9, lines 3-6; Fig. 2
	'637 patent file history, Non- Final Rejection, dated February 7, 1995	
	'637 patent file history, Applicant's Response to Non- Final Rejection, dated May 8, 1995	
Extrinsic Evidence	Gussin Opening Decl., ¶¶ 14-19, 28, 33-35, 38-43, 65-66	Deposition testimony of Edward L. Gussin, July 31, 2012 (including 138:12-
	Gussin Depo., 138:12-141:24	141:24)
	Howe Rebuttal Decl., ¶¶ 14-15	Rebuttal Declaration of Robert D. Howe, Ph.D. re: Claim Construction of U.S. Patent
	Howe Depo., 108:11-110:21	No. 5,524,637

III. TERMS WHOSE CONSTRUCTION WOULD BE DISPOSITIVE OR SUBSTANTIALLY CONDUCIVE TO PROMOTING SETTLEMENT

Defendants believe that resolution of the claim construction disputes for the term "correlation means for correlating said signal indicative of said motion of said user with a level of physiological exertion of said user," in Defendants' favor, is likely to be dispositive of this

matter. In addition, under certain circumstances, if the Court were to adopt Defendants' proposed construction for (a) "level of physiological exertion" and/or (b) "receiver means," the construction may be dispositive or conducive to promoting settlement.

Plaintiff believes that resolution of the claim construction disputes for the terms "correlation means for correlating said signal indicative of said motion of said user with a level of physiological exertion of said user," "level of physiological exertion," and/or "receiver means," in Plaintiff's favor may be dispositive or conducive to promoting settlement.

IV. ANTICIPATED TIME NECESSARY FOR CLAIM CONSTRUCTION HEARING

The Plaintiff anticipates that four (4) hours will be necessary to conduct the claim construction hearing, with this time being divided equally between Plaintiffs and Defendants, so that both Plaintiffs and Defendants are allotted two (2) hours each for argument.

Defendants anticipate that up to six hours will be necessary to conduct the claim construction hearing, with this time being divided equally between Plaintiffs and Defendants, so that both Plaintiffs and Defendants are allotted up to three hours each for argument. The Parties will attempt in good faith to take less than the entire six hours for the hearing.

V. PROPOSED WITNESSES AT CLAIM CONSTRUCTION HEARING

The Parties have agreed that they will call no witnesses at the Claim Construction Hearing, nor play any video recordings from expert depositions.

As noted above in extrinsic evidence discussions in section II, however, the Parties do intend to rely upon the reports and declarations of the Parties' experts and the deposition transcripts of the experts.

VI. PRE-HEARING CONFERENCE

The Parties propose adopting the following structure for the claim construction hearing. Each side will make a short opening presentation in which they discuss the technology, the general disclosure of the patent, and provide an overview of the accused products. The Parties will present argument on a term-by-term basis. Defendants will endeavor to have a single representative present argument per term, but for certain claim terms their views may not be perfectly aligned. For those terms, the Defendants may have more than one presentation to ensure that the Court has the benefit of argument on the nuances of those positions, but will of course endeavor not to be duplicative.

Both sides will have computer-based presentation of exhibits and visuals. Additionally, Defendants will bring a working version of Nintendo's Wii game system to the hearing for the Court's assistance if desired.

The Parties do not believe a pre-hearing conference is necessary, but are available for a telephonic pre-hearing conference if the Court desires.

Dated August 20, 2012

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CERTIFICATE OF SERVICE

I hereby certify that on August 20, 2012, a copy of the foregoing was filed electronically.

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/s/ Kaustuv M. Das

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